

ZIMINOV, N.V.; SMIRNOV, Yu.T.; FAZLULLIN, M.I.

Comparative evaluation of various ways of drilling ventilation holes.  
Uch. zap. SAIGIMSa no.7:241-248 '62. (MIRA 17:2)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent i Kanimansurskaya geologo-razvedochnaya ekspeditsiya.

S/137/62/000/002/118/1  
A060/A101

AUTHORS: Golovin, G. F., Zimln, N. V.

TITLE: Cooling capacity of certain media when using the spray feed to the surface of articles

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 107, abstract 21721  
(V sb. "Prom. primeneniye tokov vysokoy chastoty v elektrotermii".  
Moscow-Leningrad, Mashgiz, 1961, 91 - 101)

TEXT: The cooling capacity of 20 different liquids was studied under conditions of spray cooling. The aim was to choose a medium such as would ensure conditions approaching the conditions of cooling in an oil vat. On the basis of the results of the investigation the conclusion is drawn that the most acceptable cooling medium which may be applied in spray form is the water solution of polyvinyl alcohol at a concentration of 0.05 - 0.1%. This solution ensures a moderately rapid cooling in the region of pearlitic transformation, but sufficient to prevent the decomposition of the austenite in that region; simultaneously at 300°C and below the cooling rate approaches the cooling rate in oil. A tendency to

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S/137/62/000/002/118/144  
A060/A101

Cooling capacity of certain media when...

foaming constitutes a drawback of this liquid. NaCl solutions at a temperature up to 90°C may be recommended for hardening articles having simple shapes and fabricated from alloy steels.

A. Babayeva

[Abstracter's note: Complete translation]

Card 2/2

ZIMIN, N.V.

Recovery and beginning of the initial recrystallization during  
the high-speed heating of L62 brass. Fiz. met. i metalloved.  
20 no.2:265-269 Ag 1965. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhn. vysokoy  
chastoty imeni B.F.Vologdina.

ZIMIN, N.Ye.

BUSHEN, Boris Nikolayevich, kapitan 2 rang; ZIMIN, N.Ye.

On the armored train "Dmitry Donskoy." B.H.Bushen. [Corrections  
and additions by N.E.Zimin]. Mor.zap. 12 no.3:63 D'54. (MLRA 8:2)  
(Russia--Revolution, 1917-1921--Personal narratives)

ASM

243-43. Dynamics of Rapid Ma-  
chining. (In Russian.) A. M. Rozen-  
berg and Yu. P. Zimig, *Stanki i In-  
strument*, v. 22, Sept. 1961, p. 11-13.  
Influence of cutting rate on cut-  
ting force during machining of  
steel. Tables and graphs. (G17, 8T)

KABLUKOV, D. (gor. Borisoblebsk); VIKTOROV, S. (g. Sorochinsk); MININ, P. (g. Volzhsk).

Correspondence with readers. Tekh. mol. 26, no.12:28 '58.

(MIRA 11:12)  
(Oxygen--Industrial applications) (Venus (Planet)) (Nuclear physics)

ZIMIN, P., kand. iskusstvovedeniya.

See the object creatively. Sov. foto 18 no.5:47-48 My 58.  
(Photography) (MIRA 11:5)



ZIMIN, P., kand.iskusstvovedeniya

Forming frames in stereoscopic photography. Sov.foto. 19 no.1:9-10  
Ja '59. (MIRA 12:3)

(Photography, Stereoscopic)

**ZIMIN, P.**, kandidat tekhnicheskikh nauk.

Transporting wall-building materials on pallets. Mekh.stroi.  
12 no.1:26-30 Ja '55. (MLRA 8:3)  
(Building materials--Transportation)

ZININ, P.

Let us revive amateur stereoscopic photography. Sov.foto 17  
no.2:42-44 P '57. (MLRA 10:7)

(Photography, Stereoscopic)

6942\* Dynamics of Rapid Machining. In Russian. A. M.  
Bozoberg and In P. Zimin. Stanki i Instrumenty 22 Sept  
1951. p. 11-14.  
Discusses influence of cutting rate on cutting force during ma-  
chining of steel. Tables and graphs.

MR

243-41. Dynamics of Rapid Ma-  
chining. (in Russian.) A. M. Rosen-  
berg and Iu. P. Zimlin. *Stanki i In-  
strument.* v. 22, Sept. 1951, p. 11-13.  
Influence of cutting rate on cut-  
ting force during machining of  
steel. Tables and graphs with ST.

ZIMIN, P. A.

USSR/Engineering

Construction Equipment  
Cranes, Floating

Feb 1948

"Floating Crane with Lifting Capacity of 100 Tons,"  
P. A. Zimin, Candidate Tech Sci, 2 p

"Mekh Stroitel'" No 2

Gives technical data on floating crane tested by  
Ministry of Construction of War and Naval Enterprises.  
In test on construction of hydrotechnical installa-  
tions, certain basic deficiencies discovered in its  
construction: lack of anchor in stern of pontoon, in-  
sufficient power of screws and Diesel generator, and  
weak construction of deck.

51910

ZIMIN, P. A., ed.

Reference book for the mechanic at a construction site. Moskva, Gos.  
izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 488 p.  
(53-16775)

TH148.Z5

ZIMIN, P.A., kandidat tekhnicheskoy nauk, redaktor; NEPOMNYASHCHAYA, T.F.,  
redaktor; TOKER, A.M., tekhnicheskoy redaktor

[Performances of construction cranes] Proizvoditel'nost' stroitel'-  
nykh kranov. Moskva, Gos. izd-vo lit-ry stroit. i arkhitektury,  
1954. 87 p. (MLRA 8:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut organi-  
zatsii i mekhanizatsii stroitel'stva.  
(Cranes, derricks, etc.)



ZIMIN, Petr Aleksandrovich, kandidat tekhnicheskikh nauk; FUSHNYAKOV, M.D.,  
redaktor; NEPOCHYASHCHAYA, T.Q., redaktor; MELNEDEVA, L.Ya., tek-  
nicheskiiy redaktor.

[Mechanizing the transportation of wall materials for construction  
work] Mekhanizirovannaya dostavka stenovykh materialov v stroitel'-  
stve. Moskva, Gos. izd-vo lit-ry po stroit. i architekture, 1955.

197 p.

(MLRA 9:4)

(Building materials--Transportation)

ZIMIN, P.A., kandidat tekhnicheskikh nauk, redaktor; BEGAR, B.A.,  
redaktor; MEDVEDEV, L.Ya., tekhnicheskii redaktor.

[Over-all mechanization in construction] Kompleksnaya mekhanizatsiya stroitel'nykh rabot. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture. Vol. 1 [Loading, unloading and transportation work; a manual] Pogruzochno-rasgruzochnye i transportnye raboty; spravochnoe posobie. 1955. 280 p. (MLRA 8:12)

1. Moscow. Vsesoyuznyy nauchno—issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva.  
(Loading and unloading)

ZIMIN, P.A., kandidat tekhnicheskikh nauk, redaktor; SLEZNIKOV, G.I.,  
inzhener, redaktor; BEGAK, B. A., redaktor; MEDVEDEV, L.Ya.,  
tekhnicheskiiy redaktor.

[Handbook for mechanics at construction projects] Spravochnik  
mekhanika stroitel'nogo uchastka. Izd.2-oe, perer.i dop. Moskva,  
Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 478 p.  
(Construction industry--Handbooks, manuals, etc.)

ZIMIN, P.A., kandidat tekhnicheskikh nauk; PETRIKOVSKIY, S.Kh., inzhener.

Pallet transport of bricks by the railroads and mixed transport  
lines. Mekh.trud.rab.10 no.4:17-20 Ap '56. (MLRA 9:7)  
(Bricks--Transportation)

ZIMIN, P.A., kandidat tekhnicheskikh nauk.

The BK-5-195 building erection crane. Mekh.stroi.13 no.4:15-18  
Ap '56. (Cranes, derricks, etc.) (MIRA 947)

ZIMIN, P.A., inzhener; VERZHBITSKIY, K.I., inzhener; KARPUNIN, S.S.,  
inzhener.

Equipment for making and mounting brick blocks. Biul.stroi.tekh. 13  
no.5:13-16 My '56. (MLRA 9:8)

1. Nauchno-issledovatel'skiy institut po stroitel'stvu.  
(Bricks) (Building blocks)

ZIMIN, PETR ALEKSANDROVICH

ZIMIN, Petr Aleksandrovich, kand.tekhn.nauk; TIAPKIN, B.G., red.izd-va;  
GUSEVA, S.S., tekhn.red.

[Mechanization of construction work; brief survey of developments  
during the last 40 years] Mekhanizatsiia stroitel'stva; kratkii  
obzor razvitiia za 40 let. Moskva, Gos.izd-vo lit-ry po stroit.i  
arkhit., 1957. 90 p. (MIRA 11:1)

(Construction industry)

AUTHOR: Zimin, P.A., } Candidates of Technical Sciences  
Kazarinov, V.M., }

SCV/ 100-11-2-9

TITLE: Transportation, Assembly, Scraping and Levelling Works and their Mechanization. (Mekhanizatsiya pod'yemno-transportnykh, montazhnykh i pogruzochno-razgruzochnykh rabot).

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1957, Nr.11, pp.6-14, USSR.

ABSTRACT: Progress made in the mechanization of the above-mentioned work since 1917 is described. Figure 1 illustrates conveyer belts (15m long) used for the transportation of concrete mix. In 1928 building cranes with 1-ton to 1.25-ton capacity were used (see Figure 2). By 1931 the production of cranes had rapidly increased with the introduction of assembly building methods. Figure 3 shows a timber construction for a bridge crane, used for assembly purposes. From 1930 onwards great progress was made in the design and construction of assembly cranes for the building industry. The first mobile pneumatic suction machine for the unloading of cement from railway tracks

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SOV/100-11-2-9  
Transportation, Assembly, Scraping and Levelling Works and  
their Mechanization.

was constructed by the factory imeni Shevchenko in Khar'kov in 1936. Between 1931 and 1940 the amount of mechanical handling in Russia was increased from 1.2% to 4%. When the Moscow motor factory imeni Likhachev was built, the crane DIP (0.25-ton capacity) designed by engineers A.B. Dorf and V.A. Ivanov, was used. In the years 1938/40, production began on various new types of lifting, transporting and levelling machines, e.g. lorry-mounted cranes with 3-ton capacity, steam-driven track cranes of 20-ton capacity, and railway cranes with a capacity of 45 tons. The efficiency of these building machines increased steadily, e.g. during assembly of the blast furnace at the Azovstal' factory, pre-cast elements, weighing 20 tons, were assembled, and a bridge, weighing 100 tons, was lifted in one piece. After the second world war the output of building machines was steadily increased. During 1946/50 more than 400 new prototypes were constructed in factories in Minstroydormash. Further expansion was effected during the fifth 5-year plan, when 435 prototypes were made. In 1940, 1,135 cranes were available for building

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Transportation, Assembly, Scraping and Levelling Works and their Mechanization.

construction. This number increased in 1955 to 26,830. Table No.1 shows the various types of excavating machines produced and their corresponding capacities. Table Nr 2 gives the pre-war and post-war output of cranes. The following prototypes of cranes were constructed: BKSM-2P BKSM-4P BKSM-14P. Figure 5 illustrates a bridge crane widely used for assembly work. Recently, a universal excavator crane of 10-ton capacity (E-656 --see Figure 6) was constructed. The factory imeni "Yanyarskoye voostaniye" is manufacturing lorry-mounted cranes, pneumatic tyre mounted cranes of 3, 5 and 10-ton capacity (see Figure 7), and cranes of 10-25-ton capacity (see Figure 8). Figure 9 illustrates excavating machine PZ/240. A number of machines have been constructed for unloading railway trucks, e.g. T-182/A. Figure 10 illustrates self-loading trucks for the transportation of cement. Figure 11 illustrates lorry-mounted Crane 4008. There are eleven figures and two tables.

1. Construction equipment--Design Production 2. Construction equipment--

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ZIMIN, P.A.

KARPUKHIN, S.S.; ZIMIN, P.A.

An all-purpose grip for the lifting and installation of large  
blocks. Mekh.trud.rab. ll no.8:36-37 Ag '57. (MIRA 10:11)  
(Hoisting machinery) (Building blocks)

ZIMIN, P.A., kandidat tekhnicheskikh nauk.

5.

~~Unloading~~ machinery designed by Sh. Thabibulin. Nov. tekhn. i pered. op.  
v stroi. 19 no. 1:16 Ja '57. (MLFA 10:2)

(Loading and unloading) (Thabibulin, Sh.S.)

ZIMIN, P.A., kandidat tekhnicheskikh nauk; USAKOVSKIY, M.Sh., inzhener.

Grated transport of bricks. Zhel.dor.transp. 39 no.2:77 F '57.

(Bricks--Transportation)

(MLRA 10:3)

AUTHOR: Zimin, P.A., Candidate of Technical Sciences 100-58-2-3/9

TITLE: The Development of Mechanization of Loading, Transportation and Unloading of Building Materials: (Razvitiye mekhanizatsii pogruzki, transportirovaniya i vygruzki stroymaterialov)

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1958, Nr 2, Pp 14-19.

ABSTRACT: A description of various transporting machines for building materials constructed since the All-Union Congress of Builders held in 1954 is given. Tipping lorries ZIL-585 with a capacity of  $3\frac{1}{2}$  tons and MAZ-205 with a capacity of 5 tons, are used for the transportation of building materials. Tipping lorries YaAZ-210Yewith a capacity of 10 tons and MAZ-525 with a capacity of 25 tons, are used in connection with the construction of large power stations and industrial buildings. The Minsk factory is manufacturing tippers with a capacity of 40 tons. Figure 1 illustrates a tipping lorry with a capacity of  $3\frac{1}{2}$  tons which, like MAZ-506 (6-ton capacity) is of Russian manufacture. The Glavmosavtotrans uses tipping lorry ZIL-585 and trailers U2-AP-3 with hydraulically operated tipping mechanism. At present the Minsk factory is con-

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The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

structing tipping lorries with capacities of 5 and 10 tons with the tipping container situated in front (Figure 3). In 1958 the Minsk factory constructed tow-  
lorries driven by diesel engines of 100-165 h.p. The NIIOMS of the Academy of Building and Architecture of USSR, in conjunction with Ul'yanovsk Motor Factory manufactured a similar tipping container as an attachment to lorry GAZ-69. The Khar'kov factory for road-building machines constructed a trailer-tipper of 17m<sup>3</sup> capacity for attachment to tractor S-80. Figure 4 illustrates articulated trailer with 30-ton capacity attached to a tow-lorry YaAZ-210 manufactured by Glavleningradstroy. At the end of the 5th 5-year plan a standard scraper, T-182, came into production. During 1955 /57 two types of mobile rail-mounted machines were constructed, one PZ-240 for unloading building materials from open railway trucks, has a bucket conveyer belt combined with an ordinary conveyer belt. It is manufactured by the Glavstroy-mekhanizatsiya of the Ministry of Building of RSFSR. It is elevated to allow railway trucks to pass under. The weight of this machine is 18 tons and output 200-250

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The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

tons per hour (Figure 5). The other machine was constructed by Sh.S. Khabibulin. It has synchronised bucket conveyer belts and is also elevated. This machine weighs 31 tons and has a capacity of 500 tons per hour. The DNIISTroydormash is engaged on the design of a tower crane with a hydraulically operated grub attached to the end of the rod. This machine is also used for unloading materials from railway trucks. Figure 6 illustrates excavator manufactured by the firm "Alman" with the grub connected to an arm. This is much more efficient than the alternative of fixing the grub to cables. During 1955/57 numerous loading machines for building materials were manufactured in the USSR, e.g. loader 4,008, provided with a grub of 2.8m<sup>3</sup> capacity (Figure 7). Single-bucket loader, D-380, with a capacity of 0.4m<sup>3</sup> is illustrated in Figure 8. A hydraulically operated attachable bucket of 0.15m<sup>3</sup> capacity can be attached to excavator E-154 mounted on "Belarus" chassis. This attachment allows for the handling of sand and gravel. The single bucket loader D-388, on tractor D-54, has a capacity of 0.8m<sup>3</sup>. This capacity could be increased to

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The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

1.5m<sup>3</sup> (Figure 9). In 1958, loaders, with a bucket situated at the back of tractor S-100, were constructed; also attachable loading equipment to tractor DT-40. Another multi-bucket loader, T-166, was manufactured. This has tyre wheels, inclined bucket conveyer and ordinary conveyer belt. It is used to transport building materials to the size of 100mm. The "Udarnik" factory began the production of multi-bucket loaders, D-353, mounted on track undercarriage with attached conveyer belt for loading into lorries or railway trucks. Loader type PSG-100 is of continuous action: it is track mounted and has attached conveyer belt. In 1955/57 the Leningrad branch of the VNIISstroydormash designed a pneumatic installation for the transportation of free cement into silos up to the height of 22m. Similar installations, S-347 and S-362A were modified. The Glavstroy Mekhanizatsiya of the Ministry of Building of RSFSR constructed a 'worm' conveyer, RP-4. The output of this conveyer is 25-tons per hour. A similar conveyer, S-400, was constructed by the Leningrad branch of Vniistroydormash and was tested

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100-58-2-3/9

The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

at Kuybyshevskiy Zavodstroy by A.Ya. Inyakin. Cement carrier, S-386, was also constructed by the above-mentioned factory and lorry YaAZ-210 was used as a base, (Figure 10). In 1958 cement carriers (semi-trailers) with a capacity of 1,400 litres were designed as an attachment to lorries MAZ-200B. There are 10 figures and one table.

Card 5/5

1. Construction--USSR  
3. Materials--Handling

2. Construction equipment--Design

SOKOLOV, K.M.; YEVSTAFYEV, S.V.; ROSTOTSKIY, V.K.; GERCHIN, N.K.; STANKOVSKIY, A.P.; BAUMAN, V.A.; BERKMAN, I.L.; BORODACHEV, I.P.; BOYKO, A.G.; VALUTSKIY, I.I.; VATSSLAVSKAYA, L.Ya.; VOL'FSON, A.V.; DOMBROVSKIY, N.G.; YONUS, M.Ya.; YEFREMEENKO, V.P.; ZIMIN, P.A.; IVANOV, V.A.; KOZLOVSKIY, A.A.; KOSTIN, M.I.; KRIMERMAN, M.N.; LINEVA, M.S.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.; PETROV, G.D.; REBROV, A.S.; ROGOVSKIY, L.V.; SMIRNOV, G.Ya.; SHAFRANSKIY, V.N.; SHIMANOVICH, S.V.; SHNEYDER, V.A.

Evgenii Richardovich Peters; obituary; Mekh. stroi. 15 no.1:3 of cover  
Ja '58. (MIRA 11:1)

(Peters, Evgenii Richardovich, 1892-1957)

ZIMIN, P.A., kand. tekhn. nauk.

Expansion of mechanized loading, transporting, and unloading of  
building materials. Mekh. stroi. 15 no. 2:14-19 7 '58. (MIRA 11:3)  
(Building materials--Transportation)  
(Loading and unloading)

POLYAKOV, Vladimir Ivanovich, kand.tekhn.nauk; ZIMIN, P.A., nauchnyy red.;  
PODOBED, E.G., red.; DORODKOVA, L.A., tekhn.red.

[Modern methods for moving building cranes] Sovremennye sposoby  
perebazirovaniia stroitel'nykh kranov. Moskva, Vses.uchebno-  
pedagog.izd-vo Trudreservisdat, 1959. 189 p.

(MIRA 14:2)

(Cranes, derricks, etc.)

*ZIMIN, P.A.*

SOKOLOV, K.M. YEVSTAFYEV, S.V.; ROSTOTSKIY, V.K.; STANKOVSKIY, A.P.;  
 VARENIK, Ye.I.; ONUFRIYEV, I.A.; SVESHNIKOV, I.P.; URHOV, B.S.;  
 BAUMAN, V.A.; BARSOV, I.P.; BASHINSKIY, S.V.; BOYKO, A.G.; VALUTSKIY,  
 I.I.; ZAPOL'SKIY, V.P.; ZOTOV, V.P.; IVANOV, V.A.; HAZARINOV, V.M.;  
 LEVI, S.S.; MALOLETOV, Ye.K.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.;  
 OSIPOV, L.G.; PEREL'MAN, L.M.; PETROV, G.D.; PETROV, N.M.; POLYAKOV,  
 V.I.; VATSSLAVSKAYA, L.Ya.; VAKHRAMEYEV, S.A.; VERZHITSKIY, A.M.;  
 VLASOV, P.A.; VOL'FSON, A.V.; VOSHCHININ, A.I.; DZHUNKOVSKIY, N.N.;  
 DOMBROVSKIY, N.G.; YEFIFANOV, S.P.; YEFREMEENKO, V.P.; ZELICHENOK, G.G.;  
 ZIMIN, P.A.; POPOVA, N.T.; ROGOVSKIY, L.V.; REBROV, A.S.; SAFRYKIN, V.A.;  
 SOVALOV, I.G.; SOSHIN, A.V.; STARUKHIN, N.M.; SUHNNYAN, G.S.; TOLONAYA,  
 D.F.; TROITSKIY, Kh.L.; TUSHNYAKOV, M.D.; FROLOV, P.T.; TSIRKUNOV, I.P.

Andrei Vladimirovich Konarov; obituary. Mekh. stroi. 16 no.1:32 Ja  
 '59. (MIRA 12:1)

(Konarov, Andrei Vladimirovich, 1890-1958)

ZIMIN, P.A., kand.tekhn.nauk

Cranes for assembling operations. Nov.tekh.mont.1 spets.rab.v  
stroitel. 21 no.9:10-15 S '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut no.200 (NII-200) Minister-  
stva stroitel'stva RSFSR.  
(Cranes, derricks, etc.)

YEPIFANOV, Semen Pavlovich, kand.tekhn.nauk; POLYAKOV, Vladimir Ivanovich,  
kand.tekhn.nauk; AL'PEROVICH, Arkadiy Il'ich, inzh.; SIMIN, P.A.,  
kand.tekhn.nauk, nauchnyy red.; TELINGAYER, L.A., red.; DORODKOVA,  
L.A., tekhn.red.

[Tower crane operator] Mashinist bashennykh kranov. Izd.2.,  
perer. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat,  
1960. 491 p. (MIRA 14:1)  
(Cranes, derricks, etc.)



BRAUN, D.A., dotsent, kand.tekhn.nauk; VAYNSON, A.A., kand.tekhn.nauk;  
DZHUNKOVSKIY, N.N., dotsent; ZIMIN, P.A., kand.tekhn.nauk;  
VERDNIKOV, G.V., nauchnyy red.; KRYUGER, Yu.V., red.izd-va;  
EL'KINA, E.M., tekhn.red.

[Manual for building machinery operators] Spravochnik mekhanika  
po ekspluatatsii stroitel'nykh mashin. Pod red. P.A.Zimina.  
Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam,  
1960. 567 p. (MIRA 13:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organi-  
zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.  
(Building machinery—Maintenance and repair)

ZIMIN, P.A., kand.tekhn.nauk; IDASHKIN, V.I., inzh.

Conference on the improvement of construction elements and the  
performance of building and assembling cranes. Mekh.stroi.  
17 no.3:26-28 Mr '60. (MIRA 13:6)

(Cranes, derricks, etc.)  
(Precast concrete construction)

ZIMIN, P.A., kand.tekhn.nauk

New assembling cranes. Mont.i spets.rab.v stroi. 22 no.6:9-15  
Je '60. (MIRA 13:7)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.  
(Cranes, derricks, etc.)

BODUNGEN, I.N., inzh.; VINOGRADOV, K.V., inzh.; VELLESHTEYN, A.L., inzh.;  
 GOL'DGOF, B.G., inzh.; KUZ'MIN, V.S., inzh.; KULIKOV, P.S., inzh.;  
 LEBEDEV, N.N., inzh.; LEVI, S.S., kand.tekhn.nauk; NOZANOV, M.S.,  
 inzh.; SIDOROV, V.N., inzh.; SOKOLOV, D.V., inzh.; SLOINIM, N.K.,  
 inzh., laureat Stalinskoy premii; EPSHTEYN, A.L., inzh.; ANTRUSHIN,  
 B.D., inzh., nauchnyy red.; SIMAKOV, S.M., inzh., nauchnyy red.;  
 TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINE-  
 VICH, G.P., red.; YEMIFANOV, S.P., red.; ONUFRIYEV, I.A., red.;  
 ZIMIN, P.A., red.; VDOVENKO, Z.I., red.izd-va; SHIROKOVA, G.M.,  
 red.izd-va; EL'KINA, E.M., tekhn.red.

[Power engineering handbook for construction work] Spravochnik  
 energetika na stroitel'stve. Izd.2., perer. i dop. Pod red. N.N.  
 Lebedeva. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.  
 materialam, 1960. 736 p. (MIRA 13:11)  
 (Power engineering)

BOHEAR', Ye.P., inzh.; VLASOVA, M.A., inzh.; KALININ, B.P., inzh.; KOPF, L.M., inzh.; SOKOLOVA, A.D., kand.tekhn.nauk; TSEGEL'SKIY, V.L., inzh.; UTENKOV, V.F., kand.tekhn.nauk [deceased]; BOGDANOV, S.I., inzh., nauchnyy red.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINEVICH, G.P., red.; YERIPANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; TIMIN, P.A., red.; SKVORTSOVA, I.P., red.izd-va; GOL'BERG, T.M., tekhn.red.; EL'EINA, E.M., tekhn.red.

[Handbook for the erection of reinforced-concrete elements of industrial buildings] Spravochnik po montazhu zhelezobetonnykh konstruktsii promyshlennykh zdaniy. Pod red. B.P.Kalinina. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 315 p. (MIRA 14:3)

1. Moscow. Gosudarstvennyy institut po proyektirovaniyu stal'nykh konstruktsiy. (Reinforced concrete construction)

BARANOV, L.A.; GORBATOV, V.I.; YEVREINOV, D.V.; YERMAKOV, Ye.I.;  
 PITERSKOV, N.I.; RYL'KOV, A.M.; RYAZANTSEV, K.G.; TOROPOV, A.S.;  
 TSEYTLIN, G.I.; YAROSHEV, D.M.; TRUBIN, V.A., glavnyy red.;  
 SOSHIN, A.V., zam.glavnogo red.; RAKITIN, G.A., red.; GRINEVICH,  
 G.B., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV,  
 B.A., red.; ZIMIN, P.A., red.; TABUNINA, M.A., red.izd-va;  
 OSENKO, L.M., tekhn.red.

[Manual on accident prevention and industrial sanitation during  
 construction and repair operations] Spravochnoe posobie po tekhnike  
 bezopasnosti i promsanitarii pri proizvodstve stroitel'no-montazh-  
 nykh rabot. Pod red. G.A.Rakitina. Moskva, Gos.izd-vo lit-ry po  
 stroit., arkhitekt. i stroit.materialam, 1961. 359 p.

(MIRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organi-  
 zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.  
 (Construction industry--Hygienic aspects)

ROGOVSKIY, L.V., inzh.; CHERKASHIN, V.A., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; GORBANEV, V.P.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINEVICH, G.P., red.; YEFIMANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; YUDINA, L.A., red.izd-va; RYAZANOV, P.Ye., tekhn.red.; GOL'BERG, T.M., tekhn.red.

[Earthwork operations under winter conditions] Proizvodstvo zemlyanykh rabot v zimnikh usloviyakh; spravochnoe posobie. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1961. 149 p. (MIRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Bukovoditel' laboratorii zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Rogovskiy). 3. Laboratoriya zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Cherkashin). 4. Starshiy tekhnik laboratorii zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Gorbanev).

(Earthwork--Cold weather conditions)

MANDRIK, P.E., inzh.; ZIMIN, P.A., kand. tekhn. nauk, nauchnyy red.; KRO-  
MOSHCH, I.L., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Textbook for the mechanic (on the construction site)] Poso-  
bie dlia mekhanika stroitel'nogo uchastka. Moskva, Gos. ind-vo  
lit-ry po stroit., arkh. i stroit. materialam, 1961. 264 p.  
(MIRA 14:5)

(Building machinery)



STARUKHIN, N.M., inzh.; BOGATYKH, Ya.D., inzh.; TRUBIN, V.A., glav. red.;  
SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.p YEPIFANOV,  
S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A.,  
red.; TSYURUPA, A.L., inzh., nauchnyy red.; GORDEYEV, P.A., red. izd-  
va; SHERSTNEVA, N.V., tekhn. red.

[Handbook on masonry operations] Spravochnik po kamennym rabotam.  
Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam,  
1961. 198 p. (MIRA 14:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organi-  
zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.  
(Masonry)

GRIGOR'YANTS, A.S.; GLADSEYIN, D.A.; LANTSBURG, Ya.B.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.; YEPIFA--NOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red. ZIMIN, P.A., red.; KANTSEL', Ia.O., nauchnyy red.; SHIROKOVA, G.M., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Handbook on the consumption of spare parts and materials in operating and repairing building and road machinery] Spravochnik po rashodu zapasnykh chastei i materialov dlia ekspluatatsii i remonta stroitel'nykh i dorozhnykh mashin. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 399 p. (MIRA 14:10)

(Building machinery--Maintenance and repair)

(Road machinery--Maintenance and repair)

ZIMIN, P.A., kand. tekhn. nauk

Determining the level of over-all mechanization in assembly operations.  
Mont. i spets. rab. v stroi. 23 no.4:19-24 Ap '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.  
(Construction industry)

REBROV, A.S., inzh. [deceased]; USPENSKIY, V.P., inzh.; PLESHKOV, D.I., kand. tekhn. nauk; BELEN'KIY, V.I., inzh.; BERNADSKIY, G.I., inzh.; VALUTSKIY, I.I., inzh.; BAZANOV, A.F., kand. tekhn. nauk; KOGAN, I.Ya., kand. tekhn. nauk; RATNER, A.I.; VOROB'YEV, A.A., inzh.; BAUMAN, V.A., kand. tekhn. nauk; NOSENKO, N.Ye., kand. tekhn. nauk; FOKIN, M.V., inzh. [deceased]; VINOGRADOV, G.V., inzh.; GUSAKOV, M.A., inzh.; SUDAKOVICH, D.I., inzh.; Primali uchastiye: SIGAL', Ya.Ye., inzh.; TITOV, M.A., inzh.; OGIYEVICH, V.Ya., kand. tekhn. nauk; ZIMIN, P.A., kand. tekhn. nauk, retsenzent; LAPIR, F.A., inzh., retsenzent; PETROV, N.M., kand. tekhn. nauk, retsenzent; RYAKHIN, V.A., kand. tekhn. nauk, retsenzent; KHOLIN, N.A., inzh., retsenzent

[Construction machinery; a reference manual] Stroitel'nye mashiny; spravochnik. Izd.3., perer. i dop. Moskva, Mashinostroenie, 1965. 788 p. (MIRA 18:6)

ZIMIN, P.A., kand.tekhn.nauk

Choosing the parameters of assembly cranes. Mekh. stroi. 19  
no.10:14-17 0 '62. (MIRA 15:12)  
(Cranes, derricks, etc.)

ZIMIN, P.A., kand.tekhn.nauk; SHCHEPET'YEV, A.I., inzh.

For further mechanization and use of prefabrication techniques  
in assembly work. Mekh. stroi. 19 no.10:1-2 0 '62. (MIRA 15:12)  
(Construction equipment)

ZIMIN, P.A., kand.tekhn.nauk

Ways to develop the mechanization of machine assembly work. Mont.  
i spets.rab. v stroi. 24 no.12:7-10 D '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.  
(Machinery--Erecting work)

IVYANSKIY, G.B., kand. tekhn. nauk; POLYAKOV, V.I., kand. tekhn. nauk;  
RAYPENBERG, S.M., inzh.; CHEREPAKHIN, N.V., inzh.;  
PROSKURNINA, V.P., red.; TRUBIN, V.A., glav. red.; SOSHIN,  
A.V., zam. glav. red.; GRINEVICH, G.P., red.; YEFIMANOV, S.P.,  
red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A.,  
red.; PEREVALYUK, M.V., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Erection of completely precast apartment houses] Montazh polno-  
sbornykh zhilykh zdaniy; spravochnoe posobie. Pod red. V.P.  
Proskurnina. Moskva, Gosstroizdat, 1962. 94 p.

(MIRA 15:11)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organi-  
zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.  
(Apartment houses) (Precast concrete construction)



ZIMIN, P.A., kand.tekhn.nauk

Conference on the problems of over-all mechanization of loading and unloading operations. Mekh. stroi. 18 no. 3:30-31 Mr '61.

(MIRA 14:5)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.  
(Loading and unloading)

GEL'MAN, A.S.; GRINEVICH, G.P., prof.; GRINEVICH, G.G.; ZOTOV, V.P.;  
KOMAROV, G.V.; PAVLOV, S.M.; FIRMON, A.V.; TRUBIN, V.A., glav.  
red.; SOSHIN, A.V., zam. glav. red.; YEPIFANOV, S.P., red.;  
ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.;  
KROMOSHCH, I.L., inzh., red.; NAUMOVA, G.D., tekhn. red.

[Handbook on loading, unloading, and conveying operations in  
construction] Sptavochnik po pogruzochno-razgruzochnym i trans-  
portnym rabotam na stroitel'stve. Pod red. G.P.Grinevicha.  
Moskva, Gosstroizdat, 1962. 376 p. (KIRA 15:9)

(Material handling) (Building materials)

ZIMIN, P.N.; PISARNITSKAYA, A.M.; VISH, I.M.; MAKSIMENKO, V.I.; SAMORODOVA, A.I.

Immediate results of electrotherapy in psychic disorders. Zh. nevropat. psikhiat., Moskva 52 No.1:47-48 Jan 52. (CLM 21:5)

1. Of Tambov Oblast Psychoneurological Hospital (Head Physician--A.M. Pisarnitskaya).

LANTODUB, Yu.Ye., kandidat meditsinskikh nauk.; ZIMIN, P.N.

Dispensary care of patients with gastric diseases. Sov. zdav.  
15 no.1:38-42 Ja-F '56. (MLRA 9:6)

1. Iz Ukrainского rentgeno-radiologicheskogo i onkologicheskogo  
instituta (dir.-dotsent Ye.A. Baslov)

(STOMACH, dis.

ther., in dispensaries in Russia)

(OUTPATIENT SERVICE, in various dis.  
stomach dis.)

ZIMIN, P. P.

USSR/Engineering - Construction, Mechanization 1/ Mar 52

"Practice of Implanting Complex Mechanization of Operations in Construction of Machine Building Enterprises," P. P. Zimin, Cand Tech Sci

"Byul Stroitel Tekh" No 5, pp 7-10

Discusses briefly mechanized operations and equipment in the field of earthwork, piling and house building at construction projects of Mirmashstroy. Operation of sinking caissons is entirely mechanized resulting in considerable conservation of labor and time. In addition to steam hammer, vibration mechanisms were used for driving steel piles during construction of Tsimlyanskaya hydroelec station. 213T53

ZIMIN, R.

Spare parts for garage equipment are needed. Avt.transp. 40  
no.5:54 My '62. (MIRA 15:5)

1. Nachal'nik avtoremontnoy masterskoy Ivanovskogo oblastnogo  
avtotresta.

(Garages--Equipment and supplies)

VINDERGAUZ, M.S.; GOL'BERT, K.A.; ZIMIN, R.A.

Hardened polyester resin as a stationary phase in gas chromatography.  
Khim.i tekhnol. masel 7 no.4:69-72 Ap '62. (MIRA 15:4)

1. Kuybyshevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo  
instituta sinteticheskikh smol.  
(Resins, Synthetic) (Gas chromatography)

ROGINSKIY, S.Z.; ZIMIN, R.A.; YANOVSKIY, M.I.

Selective oxidizing dehydrogenation studied by pulse chromatographic method. Dokl. AN SSSR 164 no.1:144-146 S '65.  
(MIRA 18:9)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Roginskiy).



VIGDERGAUZ, M.S.; GOL'BERT, K.M.; AFANAS 'YEV, M.I.; MASHUKOVA, G.A.;  
ZIMIN, R.A.

Analysis of liquid products of pyrolysis and cracking by gas  
chromatography. Neftokhimiia 2 no.3:405-409 My-Je '62.  
(MIRA 15:8)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i  
organicheskikh produktov, Novokuybyshevskiy filial.  
(Petroleum products) (Gas chromatography)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; ZIMIN, R.A.; GORSHUNOV, O.L.

Gas chromatographic analysis of the products of isobutane  
oxidation. Neftekhimiia 2 no.3:410-414 My-Je '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i  
organicheskikh produktov, Novokuybyshevskiy filial.  
(Propane) (Gas chromatography)

YANOVSKIY, M.I.; GAZIYEV, G.A.; NIKIFOROV, V.P.; MAKARENKO, V.G.; ZIMIN,  
R.A.; MARININ, P.I.; FRANK, Yu.A.

Gas chromatograph with automatic pickup of samples from a flow.  
Zav. lab. 31 no. 1241526-1528 \*65 (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR.

ZIMIN, R.A.

S/032/62/028/002/001/037  
B101/B110

AUTHORS: Vigdergauz, M. S., Gol'bert, K. A., Savina, I. M., Alanas'yev, M. I.,  
Zimin, R. A., and Bakhareva, N. I.

TITLE: Chromatographic analysis of microimpurities consisting of  
acetylene and diene compounds in complex hydrocarbon mixtures

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 149 - 150

TEXT: A report is given on a method of chromatographic determination of acetylene, propane diene, methyl acetylene, divinyl, and ethyl acetylene for the purpose of controlling the purification process of pyrogas or the propane-propylene fraction. The analysis was conducted with an experimental model of the XTW-2 (KhTP-2) chromatograph which was provided with a detector for heat of combustion. Air served as carrier gas. Among the known sorbents, none was found which permitted the determination of the peaks of the dienes and alkynes to be ascertained. A system consisting of two 3 m long columns, diameter 4 mm, was, therefore, chosen. The first column was filled with Inza brick powder (0.25 - 0.50 mm) soaked with 25% diisobutyl phthalate. This column permitted the separation of hydrogen  
Card 1/3

S/032/62/028/002/001/037  
B101/B110

Chromatographic analysis of...

+ methane; ethane + ethylene; acetylene; propane, propylene, isobutane, propadiene, n-butane, isobutene + 1-butene + methyl acetylene; 2-butene, divinyl + ethyl acetylene. The second column was filled with brick powder soaked with 30% Sulfolane. It permitted the separation of methyl acetylene, divinyl, and ethyl acetylene. Operation is conducted first with column 1, and after passage of the propadiene peak, the columns are connected in series until the butane peak has passed. After this, the following substances are eluted from column 1 directly into the detector: 2-butene, divinyl, and ethyl acetylene. Subsequently, column 2 is reconnected, and separate elution of isobutene + 1-butene, and methyl acetylene takes place. To prevent burning through of the detector, the circuit must be switched off during elution of  $H_2$ ,  $C_2H_6$ ,  $C_2H_4$ , and  $C_3H_6$ .

When determining the content of divinyl and ethyl acetylene, the columns are connected in series after the peak methyl acetylene + isobutene + 1-butene. The accuracy of the analysis is 10-15%. The mean deviation with pyrogas is: 2% for acetylene; 6% for methyl acetylene; 13% for propadiene; 3% for divinyl; with the ethane-ethylene fraction: 3% for acetylene; 23% for propadiene. The apparatus was calibrated by means of synthetic mixtures. There are 1 figure and 1 table.

Card 2/3

Chromatographic analysis of...

S/032/62/028/002/001/037  
B101/B110

ASSOCIATION: Novokuybyshevskiy filial inatituta sinteticheskikh spirtov  
i organicheskikh produktov (Novokuybyshevsk Branch of the  
Institute of Synthetic Alcohols and Organic Products)

Card 3/3

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; SAVINA, I.M.; AFANAS'YEV, M.I.;  
ZIMIN, R.A.; BAKHAREVA, N.I.

Chromatographic analysis of microimpurities of acetylene and  
diene compounds in complex hydrocarbon mixtures. Zav.lab. 28  
no.2:149-150 '62. (MIRA 15:3)

1. Novokuybyshevskiy filial instituta sinteticheskikh spirtov i  
organicheskikh produktov.

(Acetylene compounds) (Olefins)  
(Chromatographic analysis)

ZIMIN, S., inzh.

Utilization of the maximum capacity of equipment. Energ. stroi.  
no.33:87-88 '64. (MIRA 17:8)



CA

PROCESSES AND PROPERTIES INDEX

Accelerated drum tanning with spruce extract, as applied to Russian leather. G. A. Arbuzov, S. N. Zimin and M. G. Rusakov. *Tekhnol. Nauch.-issledovaniya*. 1951. *Khimiya i Prom., Shornik*. Rabot No. 9, 94 (1951).

The lime-softened and stretched hides are pickled with a soln. of 100%  $H_2O$ , 8%  $NaCl$  and 2%  $HCl$  (on the wt. of the raw hide). A chrome extract, contg. 0.0 0.8%  $Cr_2O_3$  (on the wt. of the split hide) diss. in spent pickling liquid, is introduced in two portions within 15 min. into the drum while in rotation. The hides are placed on frames for 10-12 hrs., treated in the drum with 4% thionitrate (on the split hides), and placed on frames for 20 hrs. The tanning with spruce ext. is carried out with three solns. with 12% tannins (on the wt. of the hide) and a 4-4.3 liquid factor in the third soln., the latter being heated to 30°. The concns. of the solns. are 9-14 g. per l. in the first phase, 18-23 g. per l. in the second, and 23-4 g. per l. in the third. The pH of the phases is regulated with  $Na_2CO_3$ , in the first phase up to 6.0, in the second up to 5, and in the third up to 4.5-4.8. Tanning operations, the prepn. of the spruce ext., neutralization of the leather and finishing are described in detail. A. A. Bochtling

ASH-35.4 METALLURGICAL LITERATURE CLASSIFICATION

150-350 151-351 152-352 153-353 154-354 155-355 156-356 157-357 158-358 159-359 160-360 161-361 162-362 163-363 164-364 165-365 166-366 167-367 168-368 169-369 170-370 171-371 172-372 173-373 174-374 175-375 176-376 177-377 178-378 179-379 180-380 181-381 182-382 183-383 184-384 185-385 186-386 187-387 188-388 189-389 190-390 191-391 192-392 193-393 194-394 195-395 196-396 197-397 198-398 199-399 200-400 201-401 202-402 203-403 204-404 205-405 206-406 207-407 208-408 209-409 210-410 211-411 212-412 213-413 214-414 215-415 216-416 217-417 218-418 219-419 220-420 221-421 222-422 223-423 224-424 225-425 226-426 227-427 228-428 229-429 230-430 231-431 232-432 233-433 234-434 235-435 236-436 237-437 238-438 239-439 240-440 241-441 242-442 243-443 244-444 245-445 246-446 247-447 248-448 249-449 250-450 251-451 252-452 253-453 254-454 255-455 256-456 257-457 258-458 259-459 260-460 261-461 262-462 263-463 264-464 265-465 266-466 267-467 268-468 269-469 270-470 271-471 272-472 273-473 274-474 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400-600 401-601 402-602 403-603 404-604 405-605 406-606 407-607 408-608 409-609 410-610 411-611 412-612 413-613 414-614 415-615 416-616 417-617 418-618 419-619 420-620 421-621 422-622 423-623 424-624 425-625 426-626 427-627 428-628 429-629 430-630 431-631 432-632 433-633 434-634 435-635 436-636 437-637 438-638 439-639 440-640 441-641 442-642 443-643 444-644 445-645 446-646 447-647 448-648 449-649 450-650 451-651 452-652 453-653 454-654 455-655 456-656 457-657 458-658 459-659 460-660 461-661 462-662 463-663 464-664 465-665 466-666 467-667 468-668 469-669 470-670 471-671 472-672 473-673 474-674 475-675 476-676 477-677 478-678 479-679 480-680 481-681 482-682 483-683 484-684 485-685 486-686 487-687 488-688 489-689 490-690 491-691 492-692 493-693 494-694 495-695 496-696 497-697 498-698 499-699 500-700 501-701 502-702 503-703 504-704 505-705 506-706 507-707 508-708 509-709 510-710 511-711 512-712 513-713 514-714 515-715 516-716 517-717 518-718 519-719 520-720 521-721 522-722 523-723 524-724 525-725 526-726 527-727 528-728 529-729 530-730 531-731 532-732 533-733 534-734 535-735 536-736 537-737 538-738 539-739 540-740 541-741 542-742 543-743 544-744 545-745 546-746 547-747 548-748 549-749 550-750 551-751 552-752 553-753 554-754 555-755 556-756 557-757 558-758 559-759 560-760 561-761 562-762 563-763 564-764 565-765 566-766 567-767 568-768 569-769 570-770 571-771 572-772 573-773 574-774 575-775 576-776 577-777 578-778 579-779 580-780 581-781 582-782 583-783 584-784 585-785 586-786 587-787 588-788 589-789 590-790 591-791 592-792 593-793 594-794 595-795 596-796 597-797 598-798 599-799 600-800 601-801 602-802 603-803 604-804 605-805 606-806 607-807 608-808 609-809 610-810 611-811 612-812 613-813 614-814 615-815 616-816 617-817 618-818 619-819 620-820 621-821 622-822 623-823 624-824 625-825 626-826 627-827 628-828 629-829 630-830 631-831 632-832 633-833 634-834 635-835 636-836 637-837 638-838 639-839 640-840 641-841 642-842 643-843 644-844 645-845 646-846 647-847 648-848 649-849 650-850 651-851 652-852 653-853 654-854 655-855 656-856 657-857 658-858 659-859 660-860 661-861 662-862 663-863 664-864 665-865 666-866 667-867 668-868 669-869 670-870 671-871 672-872 673-873 674-874 675-875 676-876 677-877 678-878 679-879 680-880 681-881 682-882 683-883 684-884 685-885 686-886 687-887 688-888 689-889 690-890 691-891 692-892 693-893 694-894 695-895 696-896 697-897 698-898 699-899 700-900 701-901 702-902 703-903 704-904 705-905 706-906 707-907 708-908 709-909 710-910 711-911 712-912 713-913 714-914 715-915 716-916 717-917 718-918 719-919 720-920 721-921 722-922 723-923 724-924 725-925 726-926 727-927 728-928 729-929 730-930 731-931 732-932 733-933 734-934 735-935 736-936 737-937 738-938 739-939 740-940 741-941 742-942 743-943 744-944 745-945 746-946 747-947 748-948 749-949 750-950 751-951 752-952 753-953 754-954 755-955 756-956 757-957 758-958 759-959 760-960 761-961 762-962 763-963 764-964 765-965 766-966 767-967 768-968 769-969 770-970 771-971 772-972 773-973 774-974 775-975 776-976 777-977 778-978 779-979 780-980 781-981 782-982 783-983 784-984 785-985 786-986 787-987 788-988 789-989 790-990 791-991 792-992 793-993 794-994 795-995 796-996 797-997 798-998 799-999 800-1000 801-1001 802-1002 803-1003 804-1004 805-1005 806-1006 807-1007 808-1008 809-1009 810-1010 811-1011 812-1012 813-1013 814-1014 815-1015 816-1016 817-1017 818-1018 819-1019 820-1020 821-1021 822-1022 823-1023 824-1024 825-1025 826-1026 827-1027 828-1028 829-1029 830-1030 831-1031 832-1032 833-1033 834-1034 835-1035 836-1036 837-1037 838-1038 839-1039 840-1040 841-1041 842-1042 843-1043 844-1044 845-1045 846-1046 847-1047 848-1048 849-1049 850-1050 851-1051 852-1052 853-1053 854-1054 855-1055 856-1056 857-1057 858-1058 859-1059 860-1060 861-1061 862-1062 863-1063 864-1064 865-1065 866-1066 867-1067 868-1068 869-1069 870-1070 871-1071 872-1072 873-1073 874-1074 875-1075 876-1076 877-1077 878-1078 879-1079 880-1080 881-1081 882-1082 883-1083 884-1084 885-1085 886-1086 887-1087 888-1088 889-1089 890-1090 891-1091 892-1092 893-1093 894-1094 895-1095 896-1096 897-1097 898-1098 899-1099 900-1100 901-1101 902-1102 903-1103 904-1104 905-1105 906-1106 907-1107 908-1108 909-1109 910-1110 911-1111 912-1112 913-1113 914-1114 915-1115 916-1116 917-1117 918-1118 919-1119 920-1120 921-1121 922-1122 923-1123 924-1124 925-1125 926-1126 927-1127 928-1128 929-1129 930-1130 931-1131 932-1132 933-1133 934-1134 935-1135 936-1136 937-1137 938-1138 939-1139 940-1140 941-1141 942-1142 943-1143 944-1144 945-1145 946-1146 947-1147 948-1148 949-1149 950-1150 951-1151 952-1152 953-1153 954-1154 955-1155 956-1156 957-1157 958-1158 959-1159 960-1160 961-1161 962-1162 963-1163 964-1164 965-1165 966-1166 967-1167 968-1168 969-1169 970-1170 971-1171 972-1172 973-1173 974-1174 975-1175 976-1176 977-1177 978-1178 979-1179 980-1180 981-1181 982-1182 983-1183 984-1184 985-1185 986-1186 987-1187 988-1188 989-1189 990-1190 991-1191 992-1192 993-1193 994-1194 995-1195 996-1196 997-1197 998-1198 999-1199 1000-1200 1001-1201 1002-1202 1003-1203 1004-1204 1005-1205 1006-1206 1007-1207 1008-1208 1009-1209 1010-1210 1011-1211 1012-1212 1013-1213 1014-1214 1015-1215 1016-1216 1017-1217 1018-1218 1019-1219 1020-1220 1021-1221 1022-1222 1023-1223 1024-1224 1025-1225 1026-1226 1027-1227 1028-1228 1029-1229 1030-1230 1031-1231 1032-1232 1033-1233 1034-1234 1035-1235 1036-1236 1037-1237 1038-1238 1039-1239 1040-1240 1041-1241 1042-1242 1043-1243 1044-1244 1045-1245 1046-1246 1047-1247 1048-1248 1049-1249 1050-1250 1051-1251 1052-1252 1053-1253 1054-1254 1055-1255 1056-1256 1057-1257 1058-1258 1059-1259 1060-1260 1061-1261 1062-1262 1063-1263 1064-1264 1065-1265 1066-1266 1067-1267 1068-1268 1069-1269 1070-1270 1071-1271 1072-1272 1073-1273 1074-1274 1075-1275 1076-1276 1077-1277 1078-1278 1079-1279 1080-1280 1081-1281 1082-1282 1083-1283 1084-1284 1085-1285 1086-1286 1087-1287 1088-1288 1089-1289 1090-1290 1091-1291 1092-1292 1093-1293 1094-1294 1095-1295 1096-1296 1097-1297 1098-1298 1099-1299 1100-1300 1101-1301 1102-1302 1103-1303 1104-1304 1105-1305 1106-1306 1107-1307 1108-1308 1109-1309 1110-1310 1111-1311 1112-1312 1113-1313 1114-1314 1115-1315 1116-1316 1117-1317 1118-1318 1119-1319 1120-1320 1121-1321 1122-1322 1123-1323 1124-1324 1125-1325 1126-1326 1127-1327 1128-1328 1129-1329 1130-1330 1131-1331 1132-1332 1133-1333 1134-1334 1135-1335 1136-1336 1137-1337 1138-1338 1139-1339 1140-1340 1141-1341 1142-1342 1143-1343 1144-1344 1145-1345 1146-1346 1147-1347 1148-1348 1149-1349 1150-1350 1151-1351 1152-1352 1153-1353 1154-1354 1155-1355 1156-1356 1157-1357 1158-1358 1159-1359 1160-1360 1161-1361 1162-1362 1163-1363 1164-1364 1165-1365 1166-1366 1167-1367 1168-1368 1169-1369 1170-1370 1171-1371 1172-1372 1173-1373 1174-1374 1175-1375 1176-1376 1177-1377 1178-1378 1179-1379 1180-1380 1181-1381 1182-1382 1183-1383 1184-1384 1185-1385 1186-1386 1187-1387 1188-1388 1189-1389 1190-1390 1191-1391 1192-1392 1193-1393 1194-1394 1195-1395 1196-1396 1197-1397 1198-1398 1199-1399 1200-1400 1201-1401 1202-1402 1203-1403 1204-1404 1205-1405 1206-1406 1207-1407 1208-1408 1209-1409 1210-1410 1211-1411 1212-1412 1213-1413 1214-1414 1215-1415 1216-1416 1217-1417 1218-1418 1219-1419 1220-1420 1221-1421 1222-1422 1223-1423 1224-1424 1225-1425 1226-1426 1227-1427 1228-1428 1229-1429 1230-1430 1231-1431 1232-1432 1233-1433 1234-1434 1235-1435 1236-1436 1237-1437 1238-1438 1239-1439 1240-1440 1241-1441 1242-1442 1243-1443 1244-1444 1245-1445 1246-1446 1247-1447 1248-1448 1249-1449 1250-1450 1251-1451 1252-1452 1253-1453 1254-1454 1255-1455 1256-1456 1257-1457 1258-1458 1259-1459 1260-1460 1261-1461 1262-1462 1263-1463 1264-1464 1265-1465 1266-1466 1267-1467 1268-1468 1269-1469 1270-1470 1271-1471 1272-1472 1273-1473 1274-1474 1275-1475 1276-1476 1277-1477 1278-1478 1279-1479 1280-1480 1281-1481 1282-1482 1283-1483 1284-1484 1285-1485 1286-1486 1287-1487 1288-1488 1289-1489 1290-1490 1291-1491 1292-1492 1293-1493 1294-1494 1295-1495 1296-1496 1297-1497 1298-1498 1299-1499 1300-1500 1301-1501 1302-1502 1303-1503 1304-1504 1305-1505 1306-1506 1307-1507 1308-1508 1309-1509 1310-1510 1311-1511 1312-1512 1313-1513 1314-1514 1315-1515 1316-1516 1317-1517 1318-1518 1319-1519 1320-1520 1321-1521 1322-1522 1323-1523 1324-1524 1325-1525 1326-1526 1327-1527 1328-1528 1329-1529 1330-1530 1331-1531 1332-1532 1333-1533 1334-1534 1335-1535 1336-1536 1337-1537 1338-1538 1339-1539 1340-1540 1341-1541 1342-1542 1343-1543 1344-1544 1345-1545 1346-1546 1347-1547 1348-1548 1349-1549 1350-1550 1351-1551 1352-1552 1353-1553 1354-1554 1355-1555 1356-1556 1357-1557 1358-1558 1359-1559 1360-1560 1361-1561 1362-1562 1363-1563 1364-1564 1365-1565 1366-1566 1367-1567 1368-1568 1369-1569 1370-1570 1371-1571 1372-1572 1373-1573 1374-1574 1375-1575 1376-1576 1377-1577 1378-1578 1379-1579 1380-1580 1381-1581 1382-1582 1383-1583 1384-1584 1385-1585 1386-1586 1387-1587 1388-1588 1389-1589 1390-1590 1391-1591 1392-1592 1393-1593 1394-1594 1395-1595 1396-1596 1397-1597 1398-1598 1399-1599 1400-1600 1401-1601 1402-1602 1403-1603 1404-1604 1405-1605 1406-1606 1407-1607 1408-1608 1409-1609 1410-1610 1411-1611 1412-1612 1413-1613 1414-1614 1415-1615 1416-1616 1417-1617 1418-1618 1419-1619 1420-1620 1421-1621 1422-1622 1423-1623 1424-1624 1425-1625 1426-1626 1427-1627 1428-1628 1429-1629 1430-1630 1431-1631 1432-1632 1433-1633 1434-1634 1435-1635 1436-1636 1437-1637 1438-1638 1439-1639 1440-1640 1441-1641 1442-1642 1443-1643 1444-1644 1445-1645 1446-1646 1447-1647 1448-1648 1449-1649 1450-1650 1451-1651 1452-1652 1453-1653 1454-1654 1455-1655 1456-1656 1457-1657 1458-1658 1459-1659 1460-1660 1461-1661 1462-1662 1463-1663 1464-1664 1465-1665 1466-1666 1467-1667 1468-1668 1469-1669 1470-1670 1471-1671 1472-

KEDRIN, Ye.A., kand.tekhn.nauk; SUVOROVA, Ye.Ye., kand.tekhn.nauk;  
ZIMIN, S.N., kand.tekhn.nauk

Abrasion resistance characteristics of lining leather.  
Izv.vys.ucheb.zav.; tekhn.leg.prom. no.2:68-72 '62. (MIRA 15:5)

1. Moskovskiy Ordena Trudovogo Krasnogo Znameni institut  
narodnogo khozyaystva imeni Plekhanova. Rekomendovana  
kafedroy tovarovedeniya promyshlennykh tovarov.  
(Leather---Testing)

ZIMIN, S.S.

Some characteristics of the composition and genesis of chromites.  
Geol. i geofiz. no.4:103-113 '65. (MIRA 18:8)

1. Dal'nevostochnyy geologicheskyy institut Sibirskogo otdeleniya  
AN SSSR, g. Vladivostok.

ZIMIN, S.S.

Composition and paragenesis of chromspinellids in ultrabasic rocks.  
Geol.i geofiz. no.10:46-57 '63. (MIRA 17:1)

1. Dal'nevostochnyy geologicheskii institut, Vladivostok.

ZIMIN, S.S.

POSPELOV, G.L., starshiy nauchnyy sotrudnik; LAPIN, S.S.; BELOUS, N.Kh.;  
 KLYAROVSKIY, V.M.; KINE, O.G.; VAKHRUSHEV, V.A.; SHAPIRO, I.S.,  
 starshiy nauchnyy sotrudnik; KALUGIN, A.S.; MUKHIN, A.S.; GARNETS,  
 N.A.; SPEYT, Yu.A.; SELIVESTROVA, M.I.; RUTKEVICH, V.G.; BYKOV, G.P.;  
 NIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV, V.I.; ALADYSHEIN, A.S.;  
 PAN, F.Ya.; RUSANOV, M.G.; YAZBUTIS, E.A.; ROZHDESTVENSKIY, Yu.V.;  
 SAVITSKIY, G.Ye.; PRODANCHUK, A.D.; LYSENKO, P.A.; LEBEDEV, T.I.;  
 KAMENSKAYA, T.Ya.; MASHENNIKOV, A.I.; PIPAR, R.; DODIN, A.L.;  
 MITROPOL'SKIY, A.S.; LUMIN, V.A.; ZIMIN, S.S.; KOREL', V.G.;  
 DERBIKOV, I.V.; BARDIN, I.P., akademik, nauchnyy red.; GORBACHEV,  
 T.F., nauchnyy red.; YEROFEEV, N.A., nauchnyy red.; NEKRASOV, N.N.,  
 nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SMIRNOV-VERIN, S.S.,  
 nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.;  
 KHEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.;  
 SLEDZYUK, P.Ye., red.toma; SOKOLOV, G.A., red.toma; BOLDYREV, G.P.,  
 red.; VOGMAN, D.A., red.; KASATKIN, P.F., red.; KUDASHOVA, I.G.,  
 red.izd-va; KUZ'MIN, I.I., tekhn.red.

[Iron-ore deposits of the Altai-Sayan region] Zhelezorudnye mesto-  
 rozhdeniya Altai-Saianskoi gornoj oblasti. Vol.1. Book 1. [Geology]  
 (Continued on next card)

POSPELOV, G.L.--(Continued) Card 2.

Geologia. Otvetstvennyi red. I.P. Bardin. Moskva. 1958. 330 p.  
(MIRA 12:2)

1. Akademiya nauk SSSR. Mezhdunarodnaya postoyannaya komissiya po zheleznu.
2. Postoyannaya mezhdunarodnaya komissiya po zheleznu Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov).
3. Zapadno-Sibirskiy filial Akademii nauk SSSR (for Vakhrushov, Pospelov.)
4. Zapadno-Sibirskoye geologicheskoye upravleniye (for Sakovich).
5. Krasnoyarskoye geologicheskoye upravleniye (for Pan).
6. Zapadno-Sibirskiy geologo-razvedochnyy trest Chernyazvedka (for Prodanchuk).
7. Sibirskiy geofizicheskiy trest (for Pipar).
8. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Dodin).
9. Gornaya ekspeditsiya (for Mitropol'skiy).
10. Gornoye upravleniye Kuznetskogo metallurg.kombinata (for Lukin).
11. Tomskiy politekhnicheskiy institut (for Zimin).
12. Sibirskiy metallurg.institut (for Korel').
13. Trest Sibneftegeofizika (for Derbikov). (Altai Mountains--Iron ores) (Sayan Mountains--Iron ores)

ZIMIN, V.; GOLUSEV, N. (Manturovo, Kostromskaya oblast'); SERGEYEV, A. (Leningrad); DUSHIN, F.; SOLOV'YEV, P.; NIKIFOROV, M., shofer (Satka, Chelyabinskaya oblast'); BABICH, V.

Readers' letters. Pozh.delo 9 no.5:31 My '63. (MIRA 16:5)

1. Pomoshchnik nachal'nika pozharney komandy, pos.Iul'tin (for Zimin). 2. Obshchestvennyy pozharney inspektor sovkhbza Vyaznikovskiy, Vladimirovskoy obl. (for Dushin). 3. Predsedatel' rayonnogo soveta Dobrovol'nogo pozharndgo obshchestva, Chelyabinsk (for Solov'yev). 4. Uchastkovyy pozharney instruktor Yushnoy zheleznoy dorogi (for Babich).

(Fire prevention)

ZIMIN, V.

Together with the workshop committee. Sov. profsoiuzy 18  
no.4:21-23 F '62. (MIRA 15:3)

1. Profsoyuznyy organizator grupp uchastka sborki tsekha press-  
maslenok Gor'kovskogo zavoda "Krasnaya Etna".  
(Gorkiy--Trade unions)



*Zimin, V.A.*

118-58-3-3/21

**AUTHORS:** Murzin, G.A.; Latskiy, V.I.; Zimin, V.A.; Kizler, E.A.;  
and Sanik, A.Ya., Engineers

**TITLE:** Machine Tools for the Manufacturing of Mining Supports  
(Stanki dlya izgotovleniya elementov krepki)

**PERIODICAL:** Mekhanizatsiya Trudovymkikh i Tyazhelykh Rabot, 1958, # 3,  
pp 10-13 (USSR)

**ABSTRACT:** The Ural'skiy nauchno-issledovatel'skiy i proyektnyy in-  
stitut mednoy promyshlennosti-unipromed' (Ural Scientific  
Research and Designing Institute of the Copper Industry)  
has worked out 2 new types of mining support manufacturing  
machine tools, the "KZS-1U" and the "KZS-2U". The KZS-1U is  
a two spindle milling machine capable of producing 120 min-  
ing supports per hour, with lengths from 2,300 to 3,000 mm,  
and diameters from 170 to 250 mm. Two electric motors of  
the A52-4 type are used to operate the machine; one electric  
motor of the AOL-22-4 type is used for the conveyor mecha-  
nism. The wattage of the electric motors ranges from 7 to  
0.4 kw. The dimensions of the machine are 4,180x2,885x1,435  
mm, and its weight is 2,622 kg. The test model manufactured  
by the Kyshtymskiy mekhanicheskii zavod (Kyshtym Mechanical

Card 1/2

Machine Tools for the Manufacturing of Mining Supports 118-58-3-3/21

Plant) has shown high working qualities.

The KZS-2U, used to cut vertical props, is a two spindle milling machine. Material handling is automatic, with an output of 30 props per hour. The length of the manufactured props may range from 1,500 to 3,900 mm, and their diameters from 180 to 220 mm. The machine is operated by two 4.5 kw electric motors of the AOL-51-4 type. Two 0.4 kw electric motors of the AOL-22-4 type are used, one each for the moving of carriages and material handling. The dimensions of the milling machine are 10,500x2,140x2,187 mm and its weight is 2,170 kg.

There are 3 graphs.

AVAILABLE: Library of Congress

Card 2/2

LATSKIY, V.I., inzh.; ZIMIN, V.A., inzh.

Equipment for charging deep holes. Bezop.truda v pron. 3  
no.9:32-33 S '59. (MIRA 13:2)  
(Blasting)

CHUVIN, V.P.; KULIKOV, O.T., inzh.; LADIN, M.N., inzh.; LATSKIY, V.I., inzh.;  
ZIMIN, V.A., inzh.; LEVCHENKO, K.P., inzh.; LEVIN, S.S., inzh.;  
SERGEYEV, V.V., inzh.

"Ural-61" boring machine. Gor.zhur. no.2:53-55 F '64.

(MIRA 17:4)

1. Glavnyy instruktor Magnitogorskogo zavoda gornogo oborudovaniya  
(for Chuvina). 2. Nauchno-issledovatel'skiy i proyektno-  
konstruktorskiy institut gornogo i obogatitel'nogo oborudovaniya,  
Sverdlovsk (for Latskiy, Zimin, Levchenko, Levin, Sergeyev).

ZIMIN, V. A. (Cand. in Tech. Sci.)

"Reliability of Tubes in Electronic Computing Machines" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

ZIMIN, V. A. (Cand. in Tech. Sci.)

"Logical Circuits Employing Pulse Transformers and Semiconductor Diodes" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956,

Translation No. 596, 8 Oct 56

*TRANS of Abst. D 499674*

ZIMIN V.A.

PHASE I BOOK EXPLOITATION

SOV/1174

Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti

Avtomaticheskoye upravleniye i vychislitel'naya tekhnika; trudy soveshchaniya provedennogo v marte 1957 g. (Automatic Control and Computer Technique; Transactions of a Conference Held in March, 1957) Moscow, Mashgiz, 1958. 494 p. 12,000 copies printed.

Ed.: Solodovnikov, V.V. Doctor of Technical Sciences, Professor; Ed. of Publishing House: Konovalov, G.M.; Tech. Ed.: El'kind, V.D.; Managing Ed. for Literature on Machine Building and Instrument Making: (Mashgiz): Pokrovskiy, N.V., Engineer.

PURPOSE: The book is intended for scientific personnel and engineers working with computers and automatic control.

COVERAGE: The book is a collection of 24 articles presented at a conference called by the Scientific and Technical Society of the Instrument Manufacturing Industry in March, 1957. The conference considered problems of the construction and application of computer equipment for the automatic control of industrial processes. The articles discuss problems of analysis

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and synthesis of computers and automatic control systems. They also describe the principles of construction and design of the newest components of these systems. The articles present specific examples of the application of computer technique to the calculation and design of automatic control systems and the automation of industrial processes. M.I. Zborovskiy, Engineer, is mentioned in connection with arranging the conference. Engineers I.M. Rusevich and L.I. Shorol' helped in preparing the collection. References appear after each article.

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ZIMIN, V.A.

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PHASE I BOOK EXPLOITATION

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Nadezhnost' radioelektronnay apparatury; sbornik statey (Reliability of Electronic Equipment; Collection of Articles) Moscow, Izd-vo "Sovetskoye radio," 1958. 144 p. Number of copies printed not given.

Compiler: I.V. Grushin; Ed.: V.G. Masharova; Tech. Ed.: A.A. Sveshnikov.

PURPOSE: The book may be useful to engineering personnel working with electronic equipment.

COVERAGE: The authors discuss the necessity of determining the reliability of component elements of various electronic systems and describe methods of calculating the probability of faults in trigger circuits, amplifiers, rectifiers, and other vacuum-tube devices. No personalities are mentioned. References appear at the end of all but one article.

TABLE OF CONTENTS:

Zimin, V.A. Reliability of Operation of Standard Elements of the High-speed Electronic Computer (BESM)

The author explains methods of checking computer operation and discusses

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Reliability of Electronic (Cont.)

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the reliability of operation of such standard elements as trigger circuits, pulse-forming circuits, pulse rectifiers, phase inverters, cathode followers, diodes, and amplifiers with pulse delay. There are 3 references, all Soviet.

Zimin, V.A. Life of Vacuum Tubes in

Elements of the High-speed Elec-

27

tronic Computer (BESM).

The author discusses the results of studying the reliability of computer vacuum tubes at the USSR Academy of Sciences in 1952-1954. He also explains the stability of tube parameters, operating conditions, and tube life. There are 2 references, both Soviet.

40

Sinit'sa, M.A. Problems of Using Stand-by Radio Electronic Equipment

The author describes methods of reserving and connecting stand-by equipment, and presents a mathematical analysis of probabilities of faults and discusses the effectiveness of using stand-by equipment. There are 5 references, 3 of which are Soviet [including 2 translations], and 2 English.

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Reliability of Electronic (Cont.)

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Levitin, S.M. Underheating and Noise Parameters as Indices of Gradual Impairment of Tube Characteristics

75

The author studies static tube characteristics under conditions of underheating and explains the effect of noise on operation and life of vacuum tubes. A discussion of a system for testing vacuum tubes is also presented. There are 4 references, all Soviet.

Kuznetsov, S.M. Criterion and Method of Evaluating Reliability of Components of Radio Electronic Systems

92

The author presents a mathematical analysis of the reliability criterion and describes methods of evaluating the reliability of electronic system components. He also discusses the disadvantages of such a method. There are 17 references, all Soviet [including 2 translations].

Druzhinin, G.V. Methods of Calculating System Reliability

116

The author explains analytical and graphical methods of calculating reliability of electronic system components. There are 5 references, 3 of which are Soviet, and 2 English.

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Babenko, A.A. Reliability Parameters of Electronic Equipment

131

The author discusses the probability of the occurrence of faults in electronic equipment and explains the necessity of determining the reliability of various components. There are no references.

AVAILABLE: Library of Congress (TK780.N3)

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Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 20, p 110  
(USSR)

AUTHOR: Zimin, V.A.

TITLE: Principles of Designing Mathematical Control Machines on the Basis  
of Universal High-Speed Digital Computers

PERIODICAL: V sb. : Avtomat, upravleniye i vychisl. tekhn. Moscow, Mashgiz,  
1958, pp 29-45

ABSTRACT: The principles of operation of synchronous and asynchronous computers  
are briefly analyzed. In spite of relative complexity of calculation  
and of initial adjustment the synchronous machines based on pulse cir-  
cuits are more effective than the asynchronous ones based on static  
circuits. The trends in development of control machines are discussed.  
Efforts to substitute electronic tubes with semiconductor elements  
and the difficulties faced are noted. It is pointed out that the use  
of ferrite cores in circuits of high-speed computers leads to an in-  
creased power consumption. The problems of reliability are discussed.  
Card 1/2 The results of 22 months' observations of the standard elements of a

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Principles of Designing Mathematical Control Machines on the Basis of Universal High-Speed Digital Computers

BESM machine are cited. On the basis of data published on a semiconductor "TRA-DIK" machine it is maintained that transistors are only a few times more reliable than tubes. The application of semiconductor diodes in computers is discussed. The programming device of the BESM is taken as an example to show that the use of diodes simplifies the circuit and increases the reliability of operation. Foreign machines for control of real objects are briefly reviewed. 4 illustrations, 10 references.

V.M.P. 4

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PHASE I BOOK EXPLOITATION

SOV/5990

Zimip, Viktor Aleksandrovich

Elektronnyye vychislitel'nyye mashiny; osnovy teorii, rascheta i primeneniya  
(Electronic Computers; Basic Theory, Design, and Application) Moscow,  
Mashgiz, 1962. Errata slip inserted. 21,000 copies printed.

Reviewers: G. K. Barabanova, Engineer, G. M. Zhdanov, Doctor of Technical Sciences,  
O. I. Rogacheva, Engineer, Ye. T. Semenova, Engineer, A. G. Shigin, Candidate of  
Technical Sciences; Ed.: S. L. Martens, Engineer; Tech. Ed.: B. I. Model', Man-  
aging Ed. for Literature on Instrument Construction and Means of Automatization;  
N. V. Pokrovskiy, Engineer.

PURPOSE: This book is intended for engineers and technicians concerned with the  
design and operation of high-speed computers. It may also be useful to students  
of related specialties in schools of higher education.

COVERAGE: The book gives fundamentals of the theory, calculation, and application  
of high-speed digital computers and makes recommendations on their design. Ques-  
tions on the design and operation of these computers are answered. Attention is

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also given to digital electronic elements, tubes, transistorized and ferrite core electronic-function units, basic problems of the structure of high-speed digital computers, and methods of insuring their reliability. The electronic circuits described were tested on BESM, IBM-704, URAL, TKh-2, and BIZMAK computers. No personalities are mentioned. There are 31 references: 23 Soviet (including 2 translations), and 8 English.

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